



TDS Water Quality Sensor

(Model: MW-TDS110)

Manual

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MW-TDS110 TDS Water Quality Sensor

Profile

MW-TDS110 is an online water quality detection sensor that can be used to detect the content of total dissolved solids (TDS) in water to judge the cleanliness or pollution of water.

The unit of measurement for TDS is mg/L, which indicates how many mg of dissolved solids are dissolved in

1L of water. The higher the TDS value, the more dissolved solids the water contains.



Figure 1: TDS sensor

Sensor characteristics

High precision, fast response, good stability, small size and easy installation.

Main Application

It is widely used in laboratory scientific research, water purifier, lake water detection and other TDS detection.

Parameter

Table 1

Item	Parameter
Insulation resistance	$\geq 50M\Omega$ (not exposed)
Measurement range	0-2000ppm
Measurement accuracy	$\pm 5\%$ F.S.
Operating temperature	$\leq 70^{\circ}C$
Operating voltage	$\leq 5.0V$
Product Specifications	quick connect-2min
Cable length	58CM

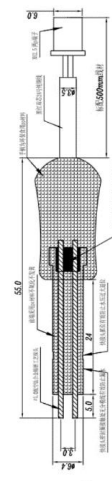


Figure 2: Sensor Structure

Instructions

1. Connect the TDS probe to the TDS sensor module.
2. Power on the TDS sensor module and put the TDS probe into the solution to be tested for testing.
3. After the test is completed, rinse the sensor electrode end with a small amount of pure or deionized water.
4. Dry the cleaned sensor and install a protective cover on the electrode end.

Cable connection

Table 2

Cable Color	Definition
Blue (central core)	+
Cable (shielded network cable)	-

Precautions

- ◆ The sensor electrode end must be cleaned before use.
- ◆ TDS probe should not be placed too close to the edge of the container, otherwise it will affect the reading.
- ◆ The TDS probe head and wire are waterproof and can be immersed in water, but the connection interface and signal adapter board are not waterproof, so pay attention to waterproofing when using.
- ◆ After the test is completed, be sure to wipe off the residual water on the probe, otherwise it will affect the test accuracy in the next test.
- ◆ The electrode head should be kept clean during long-term storage, and the sensor should be put back in the box and stored at room temperature.

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